Appln No. 09/900160 Amdt. Dated: May 21, 2007 Response to Office Action of April 6, 2007

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## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

(Currently Amended) A method of manufacturing an ink jet printhead, the method comprising the steps of:

depositing a layer of etch stop material on a front side of a wafer substrate: etching the wafer substrate up to the etch stop material to define a plurality of nozzle chambers and so that portions of the etch stop layer define roof walls for respective nozzle chambers:

depositing and etching a plurality of actuator layers on the wafer substrate, one of the plurality of actuator layers being a layer of actuator material, the layer of actuator material being etched to define both an ejection actuator and a refill actuator for each nozzle chamber; and

etching each said portion of the etch stop layer to form at least one ink ejection port in each said portion.

- 2. (Currently Amended) A method as claimed in claim 1, which includes the step of fabricating, with integrated circuit fabrication techniques, wherein another of the plurality of actuator layers is a drive circuitry layer which is deposited on a back side of the wafer substrate.
- 3. (Previously Presented) A method as claimed in claim 2, wherein the actuator defining step includes fabricating, with integrated circuit fabrication techniques, the actuators so that each actuator is electrically connected to the drive circuitry and is operatively positioned with respect to each nozzle chamber.
- 4. (Withdrawn) An ink jet printhead chip that is manufactured in accordance with an integrated circuit fabrication technique, the printhead chip comprising

a wafer substrate that defines a plurality of nozzle chambers as a result of an etching process;

an etch stop layer positioned on a front side of the wafer substrate so that portions of the etch stop layer define a roof wall for each nozzle chamber, each said portion defining at

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